MICROSPACE VEHICLE COMPUTER SYSTEMS



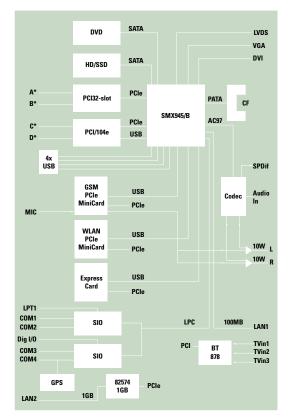
MPCX50 The fan-free, expandable Core2Duo vehicle computer

The MPCX50 has many interfaces (COMs, USB, LAN, digital I/O, video input) and is expandable with PCI slots and PC/104express cards (e.g., CAN, measurement cards). For mass storage, a rugged hard disk or SSD drive is built-in. The RTC battery is monitored and service-friendly, being accessible from the front. as slots for CompactFlash and Express cards. The housing is made of rugged chromium steel with integrated passive and fanless cooling. Customer specific functions such as Ring On Wake, GSM Wake, Event Wake Up or Wake On LAN can be realized using FPGA and a microcontroller. By means of a color LCD display and 6 function buttons, various security functions and system information (voltages, temperatures, error reports, POD diagnostics, operating log, RTC battery voltage) can be queried. An external 12V secondary battery can be connected to bridge power failures of the primary feed.

Applications

- _ Integration in cars, busses, trucks (e1 certified)
- _ Passenger entertainment, passenger safety
- _ Expandable, e.g. with 8x COM, 8x LAN
- _ Built in video frame grabber





*A, B, C, D interfaces depend on the built-in PCI/104e cards or their respective slots

Ordering information

ltem	No.	Description
Option MPCR50/R WLAN	807414	MiniCard Intel 4965AGN with
Option MPCR50/R GPS	807412	GPS A1080 assembled with antenna cable
Option GSM GPRS/UMTS	807413	MiniCard Expr. assembled, GMS with antenna cable
MPCxx M12 Powerconnector	814690	M12-Plug with 2m cable for DC input 12-48VDC
MPCX50 Mountingkit	814637	
MPCxx M12 Poweradapter	807436	110/220VAC , 90W Supply, with M12 connector (19V)
MPCxxx RTC-Battery Kit	807470	Maintenancekit
MPCxx M12 USB to Std.USB	814691	M12-Plug with 2m cable to Standard USB connector
MPCxx M12 LAN to Std.LAN	814692	M12-Plug with 2m cable to Standard RJ45-LAN
Upgrade 3GB with SMX945B	807406	Upgrade SMX945B with 3GB from the SMX945 with 2GB
Option 32GB SSD	807417	SATA SLC 2.5"-SSD Intel
Downgrade no HD	807377	No HD assembled

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Technical data

Tyne

2x 1.5GHz

Core 2 Duo

Туре
CPU
Chipset
Memory
Ext. Temp. Hard drive (SATA) - E38
CF
Video controller
CD/DVD
1st video interface
2 nd video interface
Resolution
TV input
Serial interface COM1
Serial interface COM2
Serial interface COM3
Serial interface COM4
Parallel interface
USB V2.0 Standard
USB V2.0 M12
LAN Port A (with LAN boot)
LAN Port B
Audio controller
Audio output
Audio Input
Options
•
Digital input/output
Remote power on/off
DC voltage input (not isolated), V1248
DC voltage input (1.5kV isolated), lxx
AC power supply
Expansion
•
Power save function
Conformity
Protection class
Size (W x L x H in mm)
Weight
Housing
Colour
Noise level
Operating temperature (with HD)
Extended operating temperature (with SSD)
Vibration/shock incl. HD/CD/DVD
Vibration/shock incl. SSD
MTBF
For operating systems
Part no. MPCX50-V1248

Slot C/104

MPCX50 Intel® Pentium® Core™2 Duo Intel® 945GM 2GB (max. 3GB) 80GB (opt. 32GB SSD) yes Intel® 945GM QXGA DVI 2048 x 1536 (@ 75Hz) BT878, 2 channel DSub 9pol, RS232 DSub 9pol, RS232 DSub 9pol, RS232 (opt. CAN) DSub 9pol, RS232 (opt. CAN) optional 2x front 1x front 10/100BASE-T (RJ45) 1GB-LAN AC97-2.3 Stereo 2x 20W amplifier WLAN, GSM-UMTS/GPRS CAN, IBIS, GPS 4x output, 4x opto input yes (ignition) 8-58VDC, 35W 24/36/48/72/110VDC/typ.35W 2x PCIexpress MiniCard, 2x PCI/104express slot 1x ExpressCard Suspend/Resume, SoftOff, Instant On CE, FCC, e1 IP40 320 x 132 x 250 5 kg Chromium steel chrome <20dB(A) -20°C bis +50°C -40°C bis +70°C (SSD, no HD) 1/10G 10G/150G 60'000h Vista, WIN XP, LINUX 814630

Manufacturer:



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